Inventor: Toru Takayama
Docket No.: 10873.1414US01
Title: SEMICONDUCTOR LASER DEVICE AND OPTICAL PICK UP APPARATUS USING
THE SAME
Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
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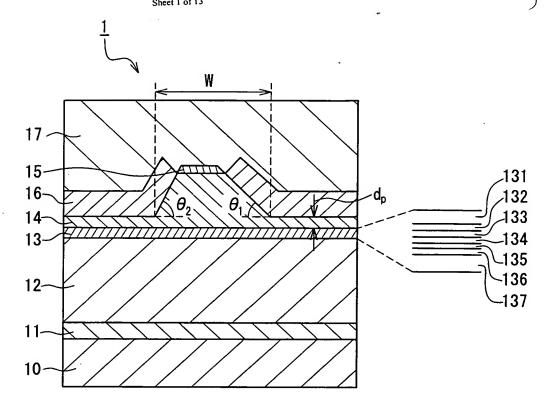


FIG. 1

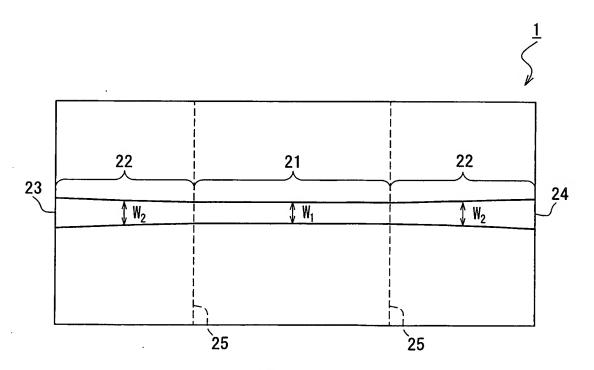


FIG. 2

Inventor: Toru Takayama
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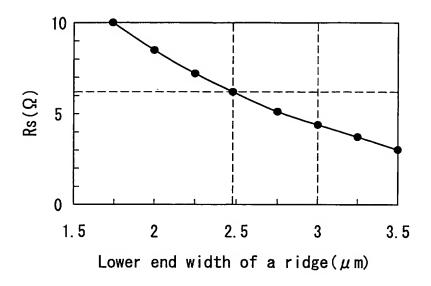


FIG. 3

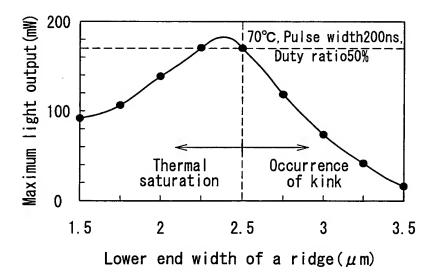


FIG. 4

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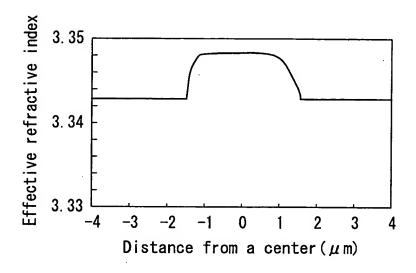


FIG. 5

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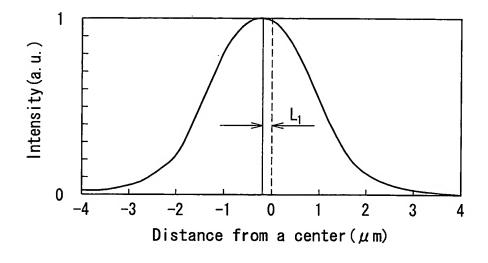


FIG. 6A

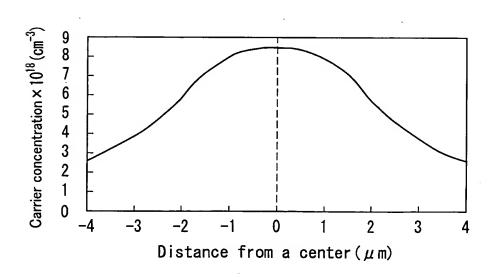


FIG. 6B

Inventor: Toru Takayama
Docket No.: 10873.1414US01
Title: SEN...CONDUCTOR LASER DEVICE AND OPTICAL PICK UP APPARATUS USING
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Autorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
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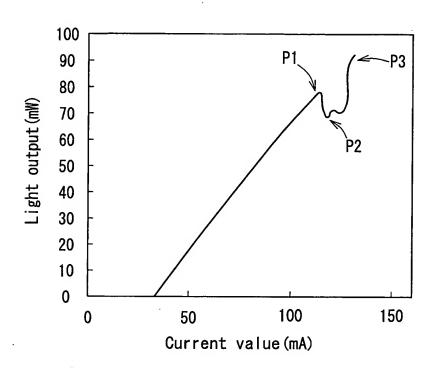


FIG. 7

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Title: SEMICONDUCTOR LASER DEVICE AND OPTICAL PICK UP APPARATUS USING

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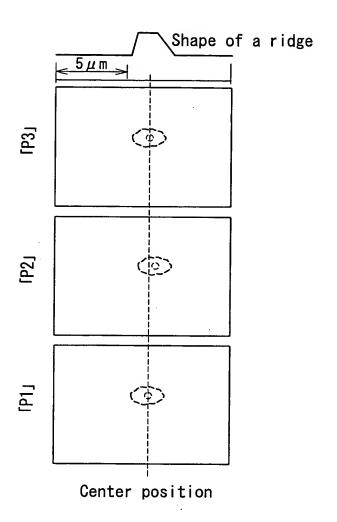


FIG. 8

Inventor: Toru Takayama Docket No.: 10873.1414US01

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THE SAME

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Phone No.: 612.371.5237

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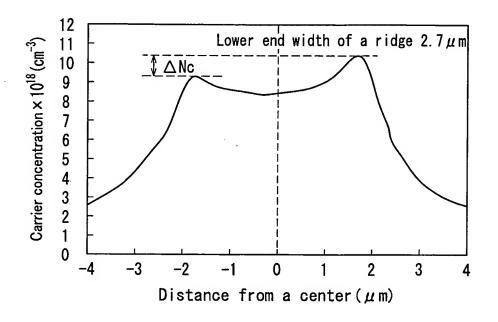


FIG. 9

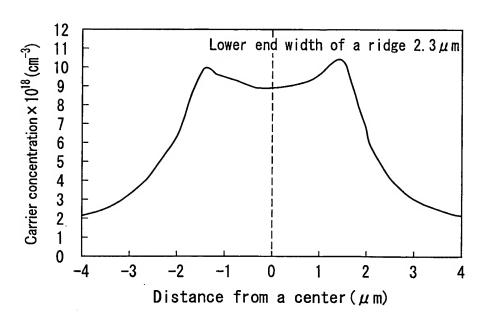


FIG. 10

Inventor: Toru Takayama
Docket No.: 10873.1414US01
Title: SEMICONDUCTOR LASER DEVICE AND OPTICAL PICK UP APPARATUS USING
THE SAME
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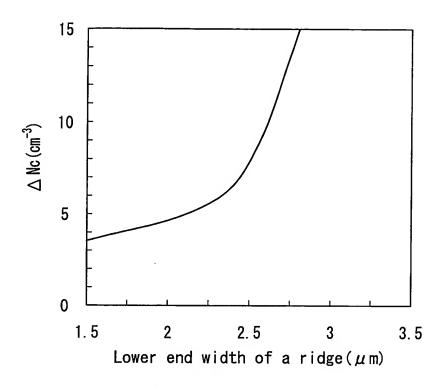


FIG. 11

Inventor: Toru Takayama
Docket No.: 10873.1414US01
Title: SEMICONDUCTOR LASER DEVICE AND OPTICAL PICK UP APPARATUS USING
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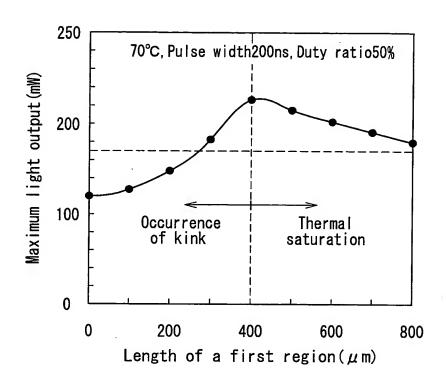


FIG. 12

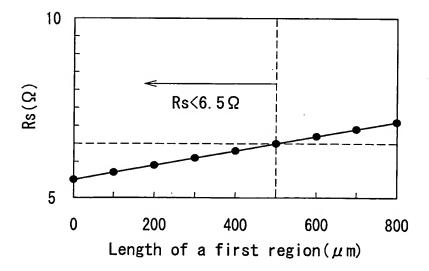
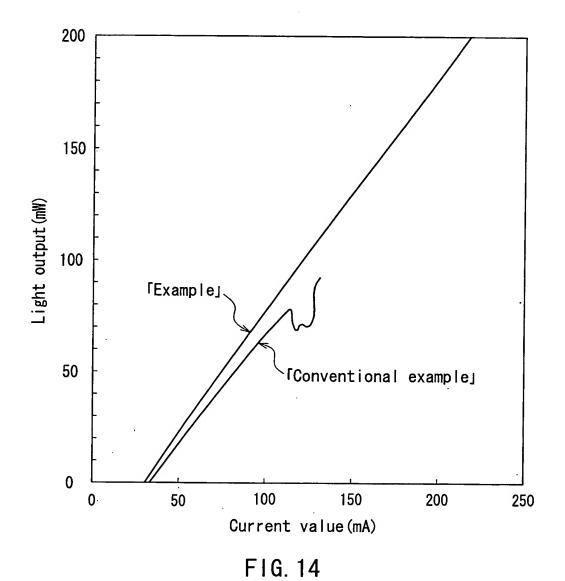


FIG. 13

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Title: SEMICONDUCTOR LASER DEVICE AND OPTICAL PICK UP APPARATUS USING Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237 Sheet 11 of 13 F1G. 150 F1G. 15F 12~ F1G. 15B F1G. 15E F1G. 15A FIG. 15D

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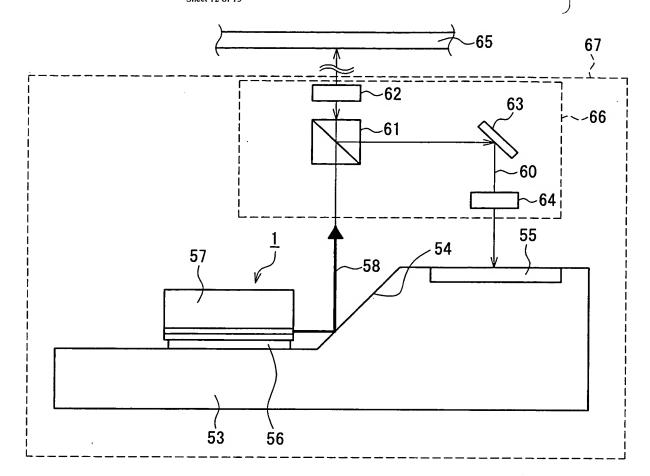


FIG. 16

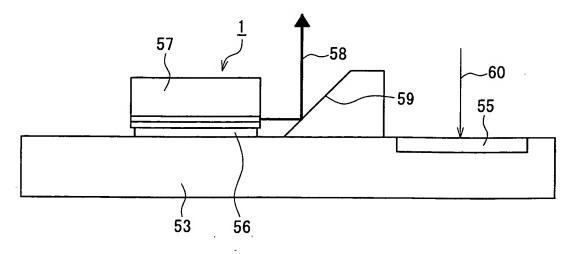


FIG. 17

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THE SAME

Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237 Sheet 13 of 13

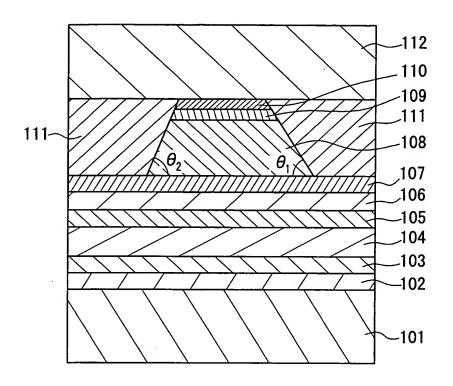


FIG. 18 PRIOR ART